

# Amantadine-heparin-polypyrrole as a promising drug delivery reservoir with biological approach

Sara Kulik <sup>1\*</sup>, Sylwia Golba <sup>2\*</sup>, Izabela Matuła <sup>2</sup>, Ewa Stodolak-Zych <sup>3</sup>, Roksana Kurpanik <sup>3</sup>

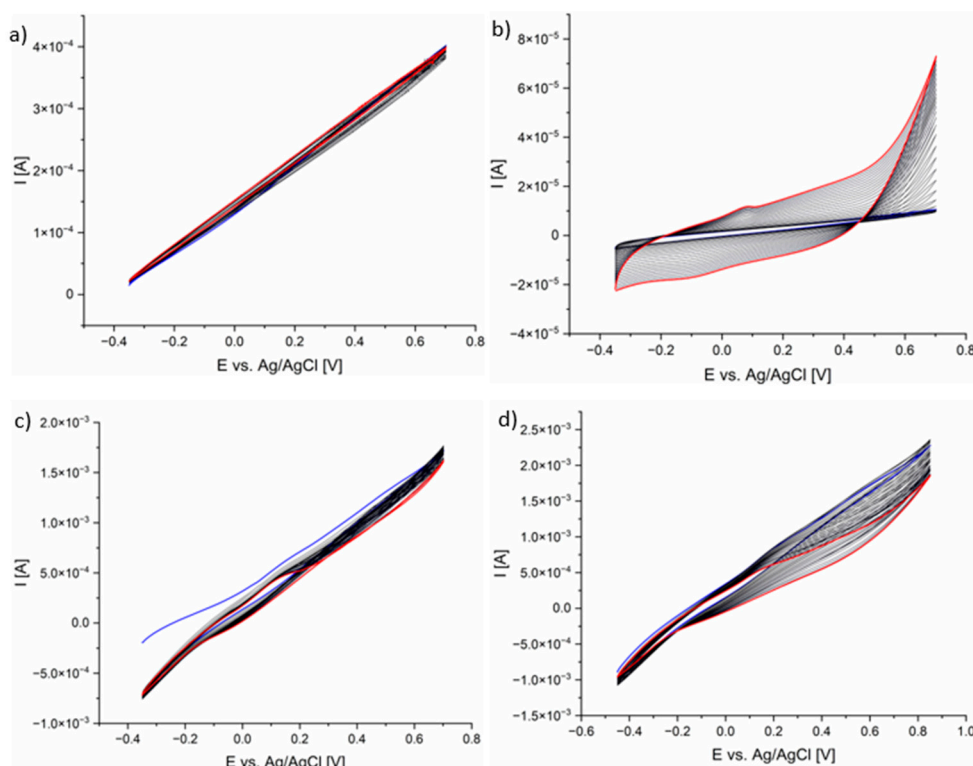


Figure S1: Synthesis of AMA/HEP/PPy in 0.1 M SDS: a) f<sub>1</sub>; b) f<sub>5</sub>; c) f<sub>2</sub>; d) f<sub>6</sub>.

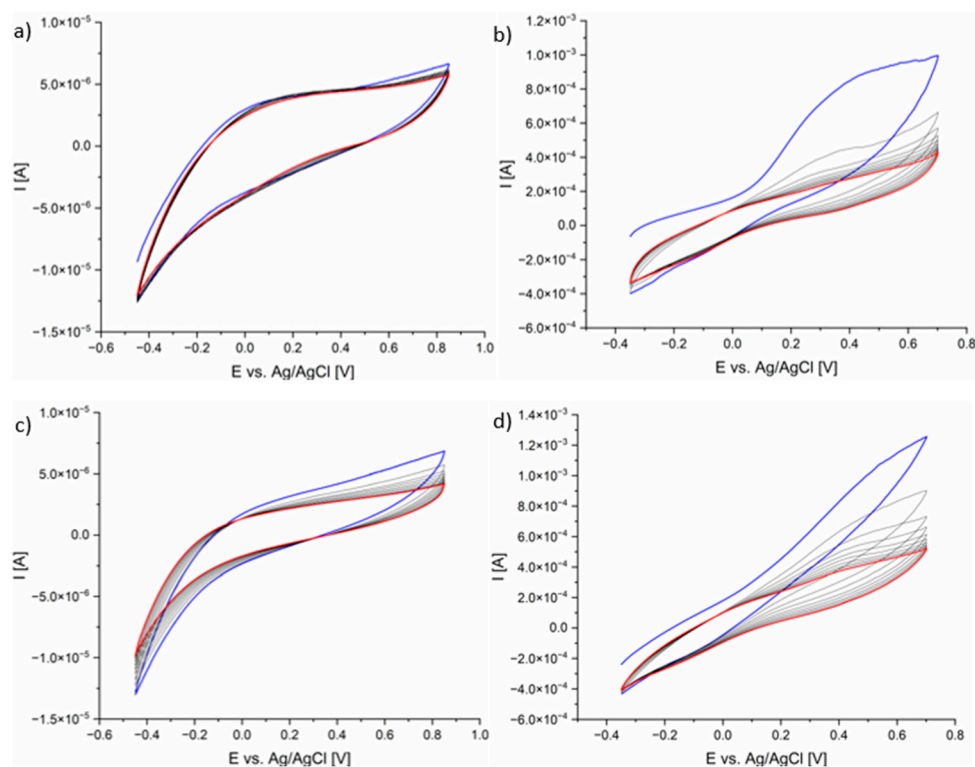


Figure S2: Cyclic voltammogram of AMA/HEP/PPy films in doping/dedoping state of: a)  $f_1$ ; b)  $f_5$ ; c)  $f_2$ ; d)  $f_6$ .

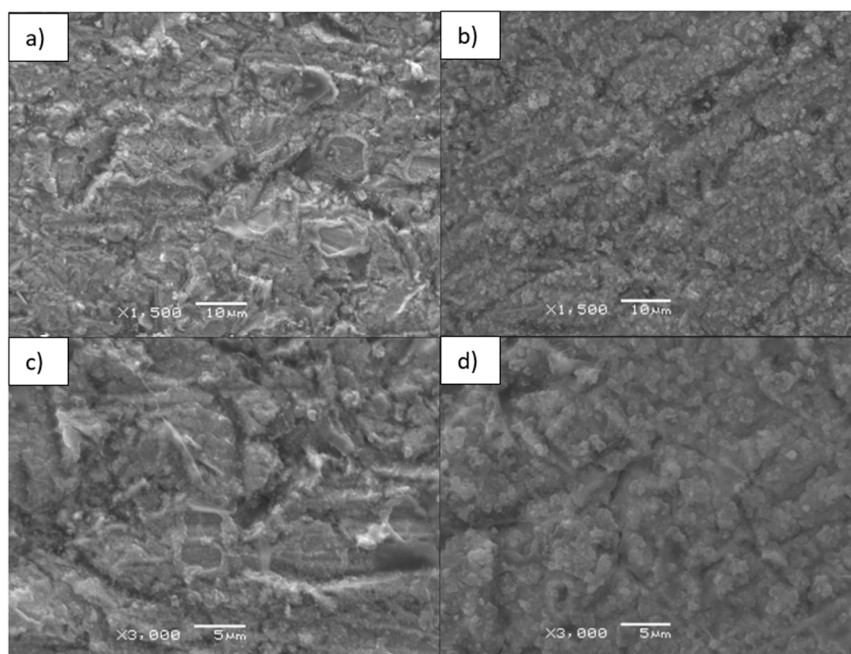


Figure S3: SEM images of the film  $f_7$  AMA/HEP/PPy on steel substrate: a), c) before AMA and HEP release; b), d) after 0.7 V potential release of AMA and HEP.

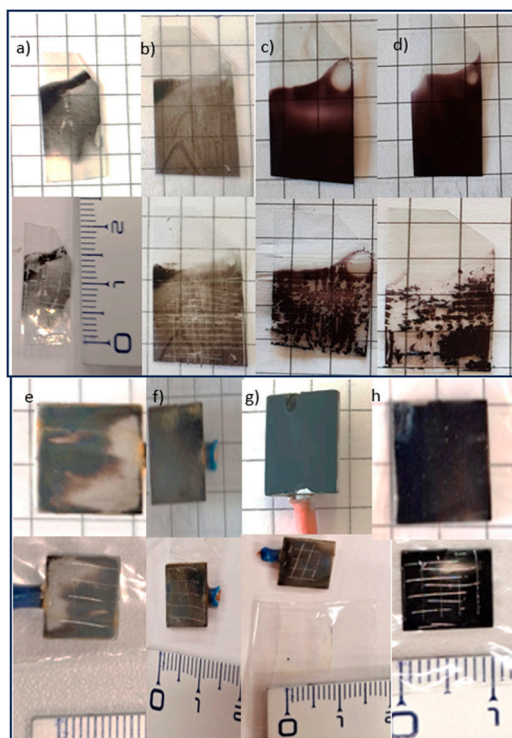


Figure S4: Adhesion test of AMA/HEP/PPy films before and after the adhesion test: on ITO substrate  
a) f1; b) f2; c) f3; d) f4; e) f5; f) f6; g) f7; h) f8.